

Claims:

1. A method for positioning of a wireless communication device, wherein position data of one or a plurality of reference points is stored to at least one data base, it is examined which of said reference points is located in the vicinity of the wireless communication device, and at least position data about said reference point located in the vicinity of the wireless communication device is transmitted to the wireless communication device, wherein in order to perform the positioning, said reference point located in the vicinity of the wireless communication device is selected as the default position of the wireless communication device.
2. The method according to claim 1, wherein as the reference points are used base stations of a mobile communication network, for which base station a cell global identity is defined, and that when storing the position data of the reference points different reference points are separated in accordance with said identity.
3. The method according to claim 2, wherein a data base is established in the mobile communication network.
4. The method according to claim 2, wherein a communication connection is set up between the wireless communication device and the base station of the mobile communication network, and the selected default position is the position of the base station that communicates with the wireless communication device at the time.
5. The method according to claim 2, wherein the position data of the base stations is transmitted from the base station to the wireless communication device.
6. The method according to claim 2, wherein the data base is set up in the data base server and that a communication connection is established from the data base to the wireless communication device to transfer position data between the wireless communication device and the data base.

7. The method according to claim 6, wherein a connection according to the WAP protocol is used as said communication connection.

5 8. The method according to claim 1, wherein information on the position of the reference points is stored also in the wireless communication device.

10 9. The method according to claim 8, wherein the cell global identity of the base station communicating with the wireless communication device is transmitted to the wireless communication device, wherein when the identity of the base station changes, it is examined in the wireless communication device whether any position data based on the identity of the new base station are stored in the wireless  
15 communication device, wherein in case no data is stored in the wireless communication device, a request is sent from the wireless communication device for transmission of positioning data to the wireless communication device.

20 10. The method according to claim 1, wherein for determining the position data of the reference points position is performed at least in one wireless communication device, the determined position data and the identity of the base station are transmitted to be stored into the data base.

25 11. A positioning system to be used in the positioning of a wireless communication device, wherein the positioning system comprises at least one data base for storing one or a plurality of reference points, means for detecting which of said reference points is located in the  
30 vicinity of the wireless communication device, means for transmitting the position data of the reference point located in the vicinity of said wireless communication device to the wireless communication device, wherein for performing the positioning, said reference point in the vicinity of the wireless communication device is arranged to be  
35 selected as the default position of the wireless communication device.

12. The positioning system according to claim 11, wherein the base stations of the mobile communication network are arranged to be used as the reference points, for which a cell global identity is defined, and that when storing the position data of the reference points different  
5 reference points are separated from each other according to said identity.

13. The positioning system according to claim 12, wherein the data base is established in the mobile communication network.  
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14. The positioning system according to claim 12, comprising means for establishing a communication connection between the wireless communication device and the base station of the mobile communication network, wherein the selected default position is the position of that base station that communicates with the wireless communication device at the time.  
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15. The positioning system according to claim 12, wherein it comprises means for transmitting position data of the base stations of the mobile communication network from the base station to the wireless communication device.  
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16. The positioning system according to claim 12, wherein the data base is set up in the data base server, and that the positioning system comprises means for setting up a communication connection from the data base to the wireless communication device to transfer position data between the wireless communication device and the data base.  
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17. The positioning system according to claim 16, wherein a connection according to the WAP protocol is used as said communication connection.  
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18. The positioning system according to claim 11, wherein information on the position of the reference points is stored also into the wireless communication device.  
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19. The positioning system according to claim 18, wherein it comprises means for transmitting to the wireless communication device the cell global identity of the base station with which the wireless communication device is communicating, wherein the wireless communication device comprises means to examine when the global cell identity changes whether the position data based on the new identity is stored in the wireless communication device, wherein in case no data is stored in the wireless communication device, a request to transmit position data to the wireless communication device is arranged to be transmitted from the wireless communication device.

20. The positioning system according to claim 11, wherein the wireless communication device comprises means for performing positioning, and means for transmitting the defined position data and the cell global identity of the base station, and that the positioning system comprises means for receiving said positioning data and identity transmitted from the wireless communication device and for storing them into the data base.

21. An electronic device to be used in a positioning system, which electronic device comprises at least positioning means and means for performing functions of a mobile communication device, wherein the electronic device further comprises means for detecting which of the reference points stored in the data base of the positioning system is located in the vicinity of the wireless communication device, means for receiving the position data of the reference point located in the vicinity of the wireless communication device, and means for selecting the reference point located in the vicinity of said wireless communication device as the default position of the wireless communication device in the positioning.